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PPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/037,674	03/09/1998		HIDEKI MIZUHARA	2933SE-11-CI	7419
22442	7590	06/10/2003			
SHERIDA	N ROSS I	PC .	EXAMINER		
1560 BROADWAY SUITE 1200				NADAV, ORI	
DENVER, CO 80202				ART UNIT PAPER NUMBER 2811	
				DATE MAILED: 06/10/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Application No. Application			AM _				
### Examiner		Application No.	Applicant(s)				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address -	· Office Action Occasions	09/037,674					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Electrolized or time may be available under the provision of 37 cFR 1.15(6). In no event, however, may a reply be timely filed after SX (6) MONTHS from the mailing date of this communication. Electrolized or file may be available under the provision of 37 cFR 1.15(6). In no event, however, may a reply be timely filed after SX (6) MONTHS from the mailing date of this communication. I NO period for exply is specified above, the maximum stututory period will specy and will explice X(6) MONTHS from the mailing date of this communication. Fallive to reply within the stat or extended predict freqs) will. by statution, such as the provision of the communication, explication to become ABANDONED 63 U.S.C. § 1330, searched patent from adjustment. See 37 CFR 1.74(b). Status 1) □ Responsive to communication(s) filed on 0.5 May 2003. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Explarte Quayle, 1935 c.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 16-33 is/are pending in the application. 4a) Of the above claim(s) 16-24 is/are withdrawn from consideration. 5) □ Claim(s) is/are objected to. 3) □ Claim(s) is/are objected to. 3) □ Claim(s) is/are objected to. 3) □ Claim(s) is/are objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Application Papers 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ Certified copies of the prio	Office Action Summary	Examiner	Art Unit				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of them may be available under the provisions of 37 CFR 1.135(a), in no event, however, may a reply be simily filed Extensions of them may be available under the provisions of 37 CFR 1.135(a), in no event, however, may a reply be simily filed Extensions of them may be available under the provisions of 37 CFR 1.135(a), in no event, however, may a reply be simily filed Extensions of them may be available under the provisions of 37 CFR 1.135(a), in no event, however, may a reply be simily filed If No period for reply is specified above, the maximum distatuory period will apply and will segrits SIX (b) MONTHS from the maining date of the summary and available of the communication. The provision of the pro							
THE MAILING DATE OF THIS COMMUNICATION. Letrations of time may be audiable under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (p) MONTES from the mailing date of this communication. If the period for firely specified done is less than thirt (b) day printed in statisticy minimum of theirly (city) days will be considered from the mailing date of this communication. Failure to reply which the saft or extended period for reply veit, by statute, cause the application to become ABANDONED (38 U.S.C. § 133). Any reply received by the Office later than three morths after the mailing date of this communication, even if timely filed, may reduce any seamed patient term solutions after the mailing date of this communication, even if timely filed, may reduce any seamed patient term solutions after the mailing date of this communication, even if timely filed, may reduce any seamed patient term solutions. Status 1)		pears on the cover sheet with the c	orrespondence address –				
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 25-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakano (JP 6-291202) in view of Okumura et al.

Nakano teaches in figure 1b and related text a semiconductor device comprising a semiconductor substrate 11, an insulating film 12 on the substrate, wirings 13 located on the insulating film 12 and a passivation layer covering top surfaces of the insulating film and the wirings, including a first insulating film 15 that is a modified SOG containing boron impurities and inorganic component (abstract) and being in condition where oragnic component is decomposed, and a second insulating film 16 comprising oxide having a hygroscopicity lower than the first insulating film and being located on at least one of an upper side and lower side of the first insulating film..

Although Nakano does not explicitly state that layers 15 and 16, respectively, are passivation layers, layers 15 and 16 meet the functional limitations of the claims since layers 15 and 16 protect the device.

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Nakano does not state that insulating film 12 is an interlayer insulating film. Okumura et al. teach in figure 13D an interlayer insulating film (ILD) 12 located between the semiconductor substrate 1 and wirings 16. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use an interlayer insulating film as the insulating film in Nakano's device in order to provide good isolation between the wiring layers and the active regions in the semiconductor substrate.

Regarding the claimed limitations of "a modified SOG film of an organic SOG film" and "being in condition where oragnic component is decomposed", these would not carry patentable weight in this claim drawn to a structure, because distinct structure is not necessarily produced by forming a modified SOG film from an organic SOG film. Note that a "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); and In re Marosi et al., 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that the applicant has the burden of proof in such cases, as the above case law makes clear.

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Regarding claims 26, 29 and 32, although Nakano does not explicitly state that silicon oxide has a hygroscopicity lower than boron doped SOG, this feature is inherent in Nakano's device, because it is well known in the art that silicon oxide has a hygroscopicity lower than boron doped SOG, of which judicial notice is taken.

Response to Arguments

3. Applicant argues on pages 3- 4 that Nakano does not teach a passivation film covering the top surfaces of the wiring and the interlayer insulating film.

Nakano and Okumura et al. teach a passivation film 15 covering the top surfaces of the wiring 13 and the interlayer insulating film 12.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 308-7722 and 308-7724. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.

Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to Examiner Nadav whose telephone number is (703) 308-8138. The Examiner is in the Office generally between the hours of 7 AM to 4 PM (Eastern Standard Time) Monday through Friday. If attempts to reach the examiner by

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telephone are unsuccessful, the examiner's supervisor, Tom Thomas, can be reached at (703) 308-2772.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center Receptionists whose telephone number is 308-0956

O.N. June 6, 2003

ORI NADAV PATENT EXAMINER **TECHNOLOGY CENTER 2800**

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